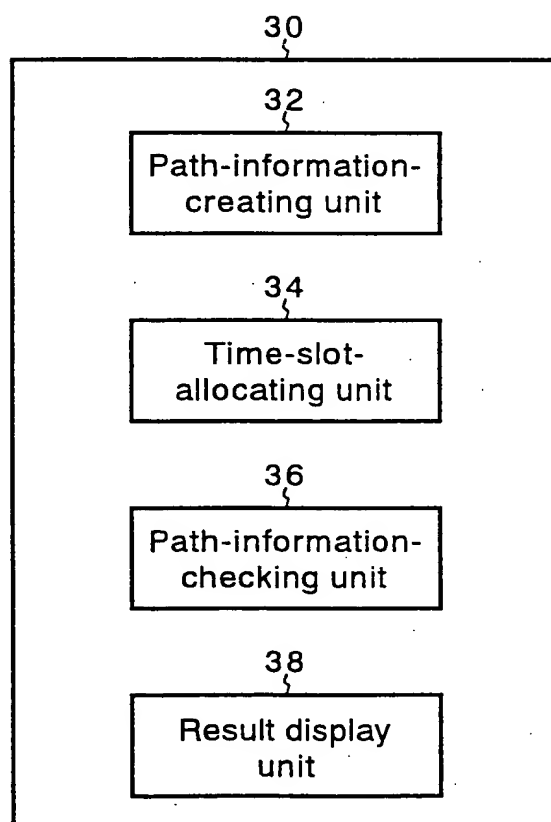


FIG. 1



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FIG. 2

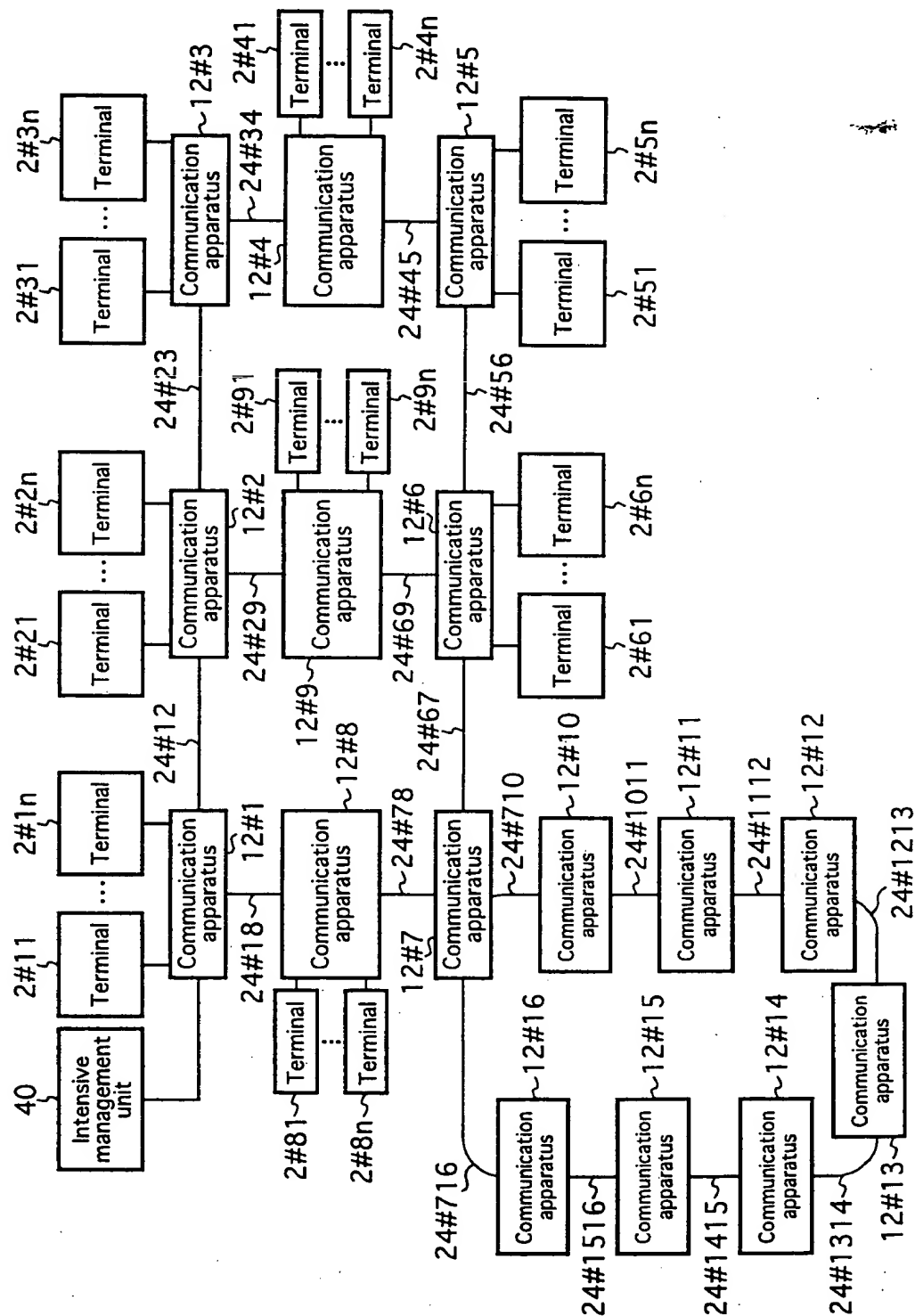


FIG. 3

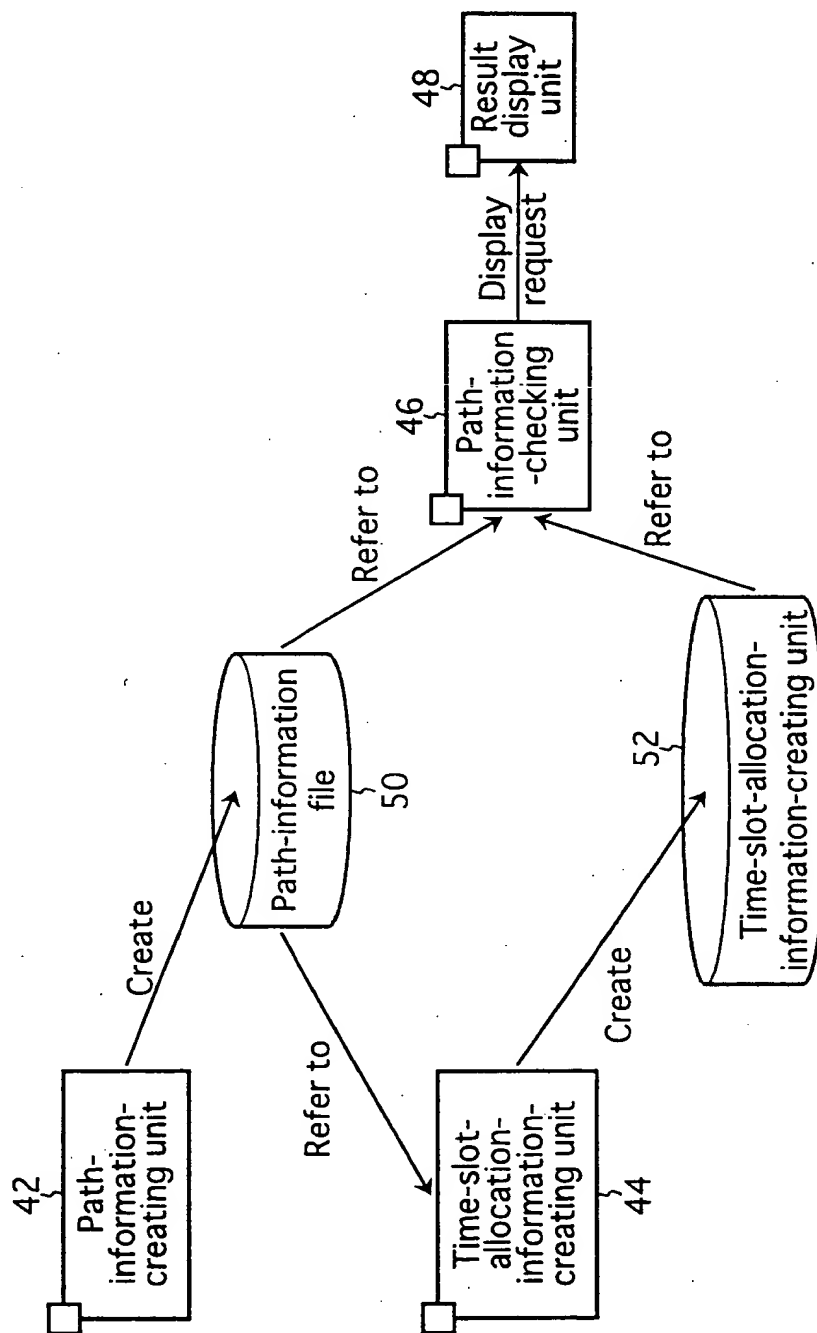


FIG. 4



FIG. 5

Path information
(Path information)

Path management number	Terminating connection point
Group identifier	Connection type
Number of allocated time slot	I/F category and I/F parameter
Termination 1	
Termination 2	
Line-implementation identifier	Terminating connection point
Route information	Connection type
	I/F category and I/F parameter

- Path management number
: Management number for identifying path information
- Group identifier
: Identifier for identifying a group comprising pieces of path information
- Number of allocated time slots
: Width of allocation of time slots to the path (Transmission speed)
- Termination information
: Information on termination of the path (on both sides)
- Terminating connection point
: Position of a point serving as a termination of the path
- Connection type
: Type of a point serving as a termination of the path
(Terminal IF, apparatus internal IF or transmission IF)
- I/F category
: Category of the terminal-IF connection type
- Line-implementation identifier
: Direction of the path (Bi-directional, terminating connection point of termination information 1 → terminating connection point of termination information 2, terminating connection point of termination information 2 → terminating connection point of termination information 1)
- Route information
: Group of terminating connection points from the terminating connection point of termination information 1 to the terminating connection point of termination information 2 including relaying terminating connection points

FIG. 6 A

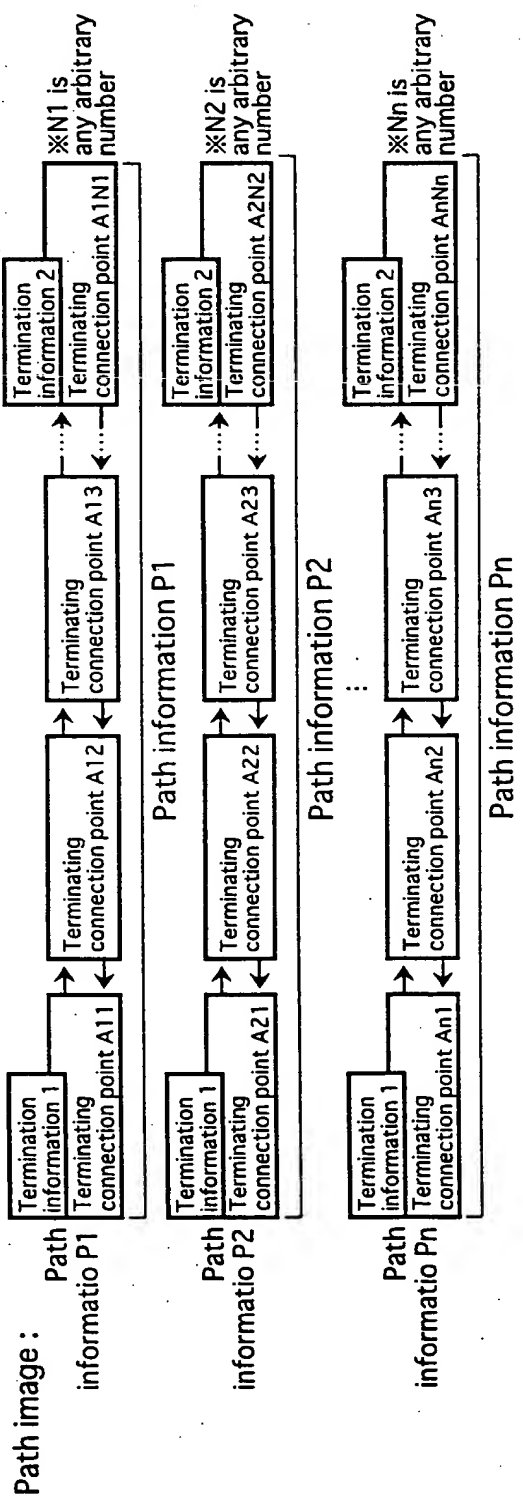


FIG. 6 B

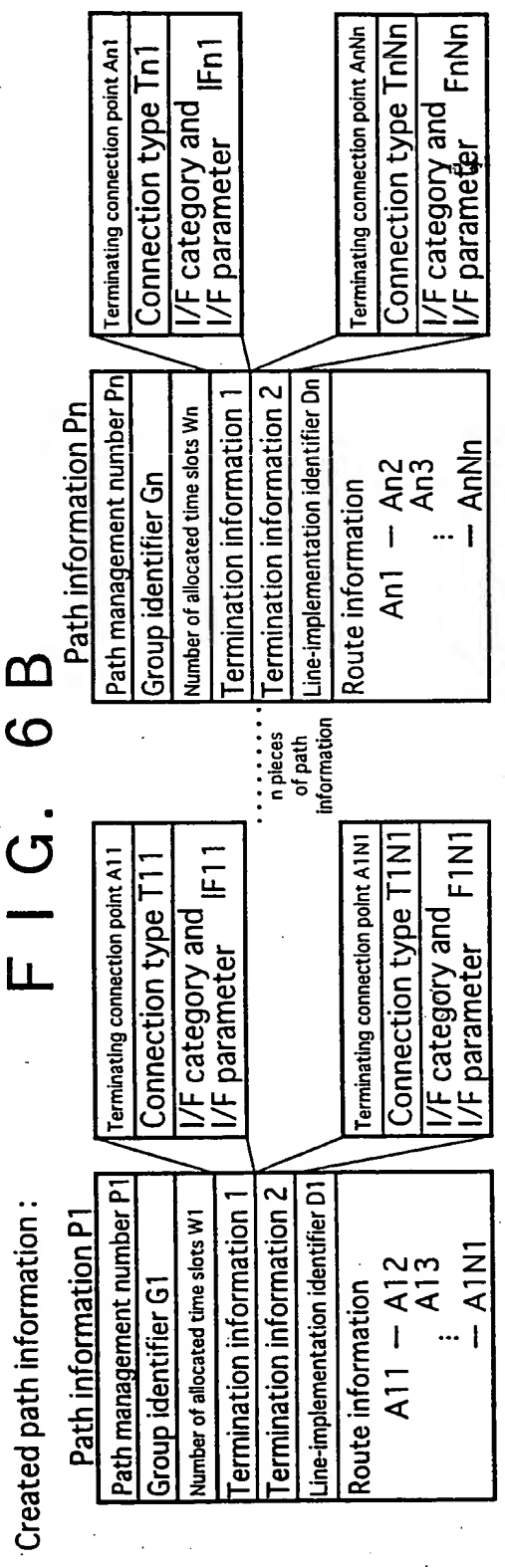


FIG. 7

Information on allocation of time slots
(Provided on transmission and reception sides of each terminating connection point)

Allocation information TS#1	Usage information #1	Path management number
Allocation information TS#2	Usage information #2	Group identifier
Allocation information TS#n	Usage information #m	

Allocation information TS#n : Allocation information set at TS#n
(n is a maximum number of time slots settable at the terminating connection point)

Usage information #m : The path management number of the path using the TS and a group identifier identifying a group including the path
(As many pieces of usage information as paths using the TS are provided)

FIG. 8 A

Image of allocation of time slots :

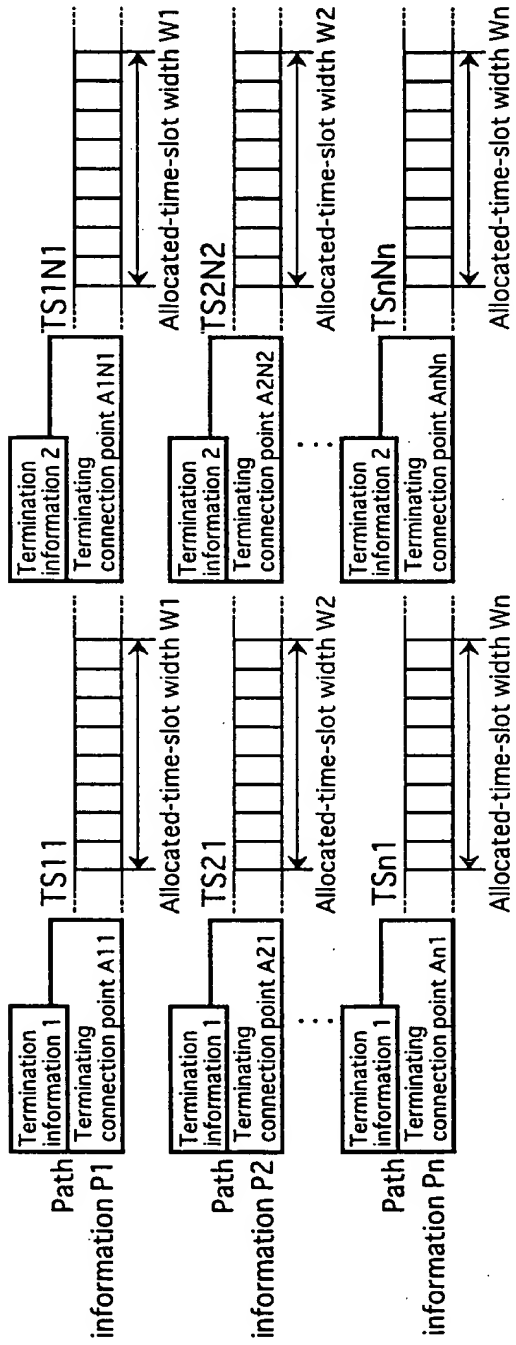


FIG. 8 B

Created information on allocation of time slots :

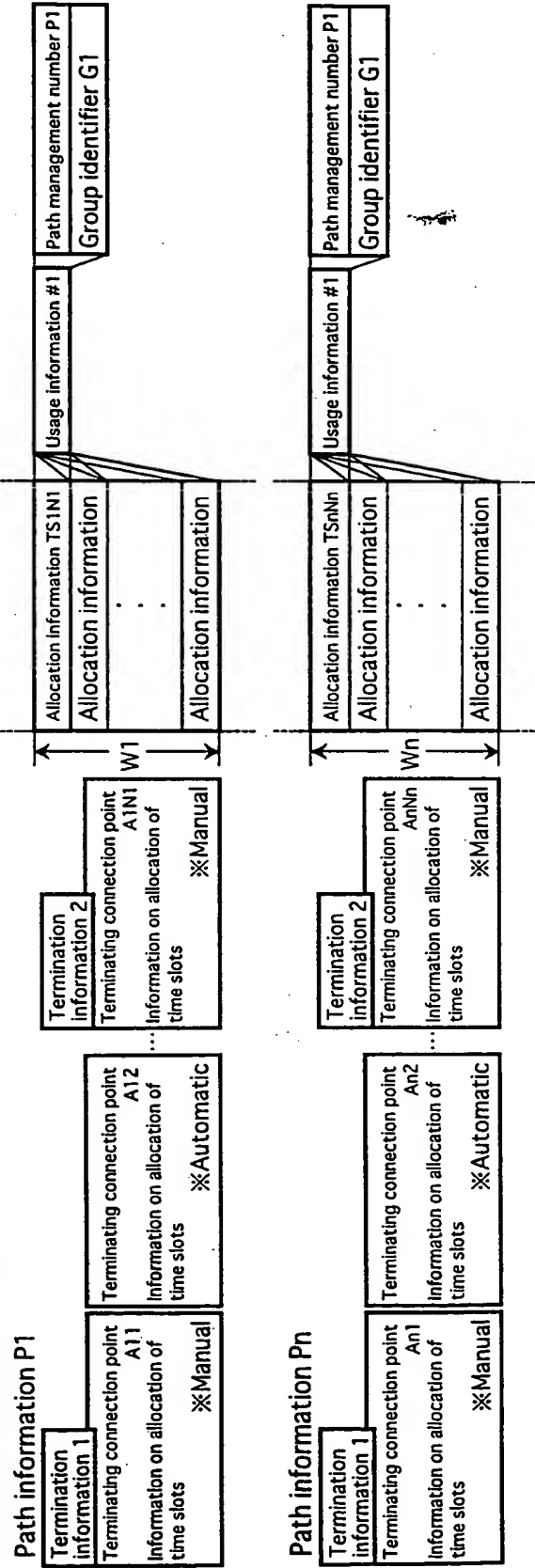


FIG. 9

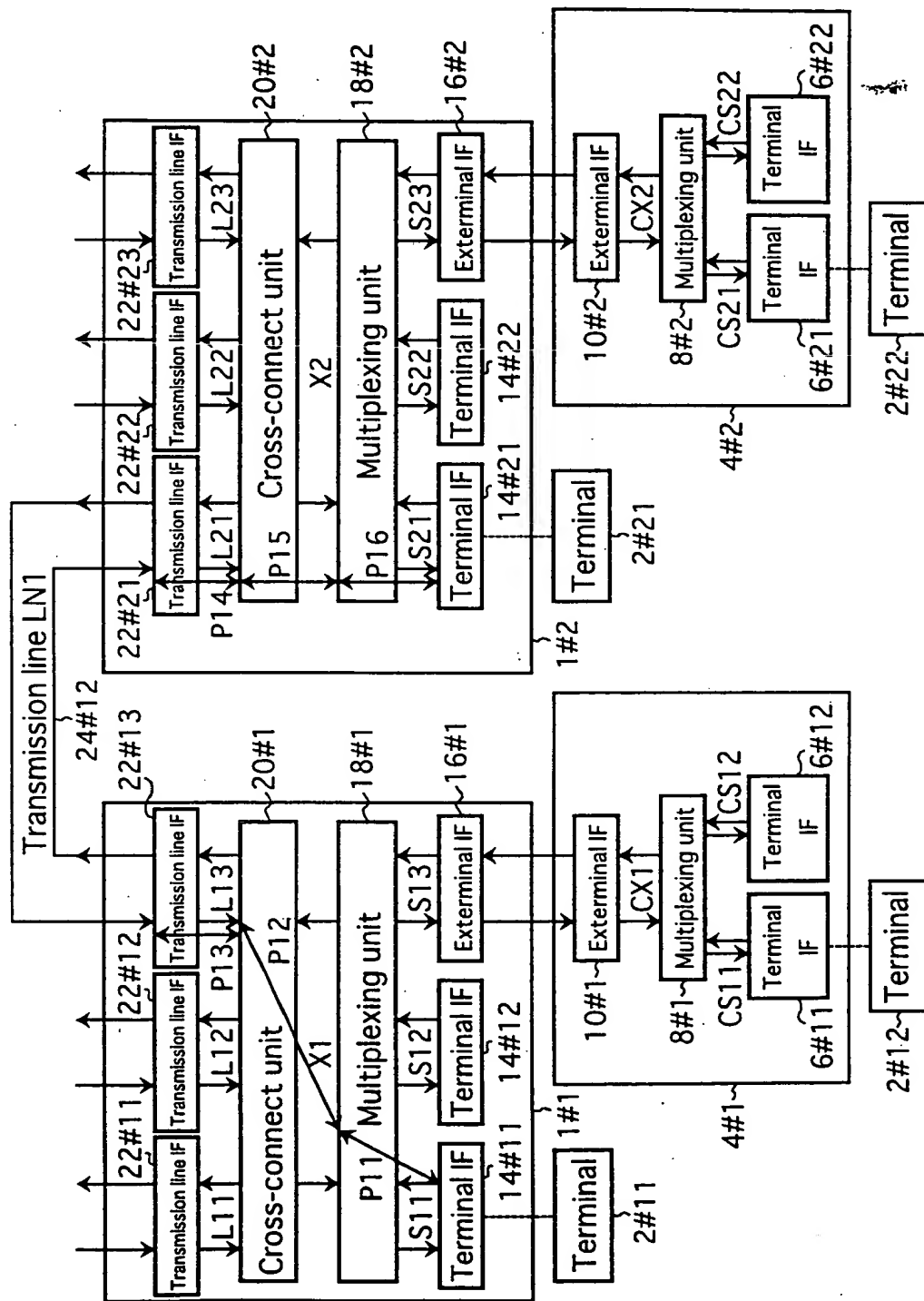


FIG. 10

Path P11	Path P12	Path P13
P11	P12	P13
G1	G1	G1
TS1	TS2	TS3
S11 Terminal IF	X1 Apparatus internal IF	L13 Apparatus internal IF
X1 Apparatus internal IF	L13 Apparatus internal IF	LN1 Transmission-line IF
Bi-directional	Bi-directional	Bi-directional

Path P14	Path P15	Path P16
P14	P15	P16
G1	G1	G1
TS4	TS5	TS6
LN1 Transmission-line IF	L21 Apparatus internal IF	X2 Apparatus internal IF
L21 Apparatus internal IF	X2 Apparatus internal IF	S21 Terminal IF
Bi-directional	Bi-directional	Bi-directional

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FIG. 11

Transmission side of S11

TS#11	P11
.	G1
.	
.	
.	
.	

Transmission side of X1

TS#21	P11
TS#22	G1
.	P12
.	G1
.	
.	

Transmission side of L13

TS#31	P12
.	G1
.	P13
.	G1
.	
.	

Transmission side of LN1

TS#41	P13
.	G1
.	P14
.	G1
.	
.	

Reception side of L21

TS#51	P14
.	G1
.	P15
.	G1
.	
.	

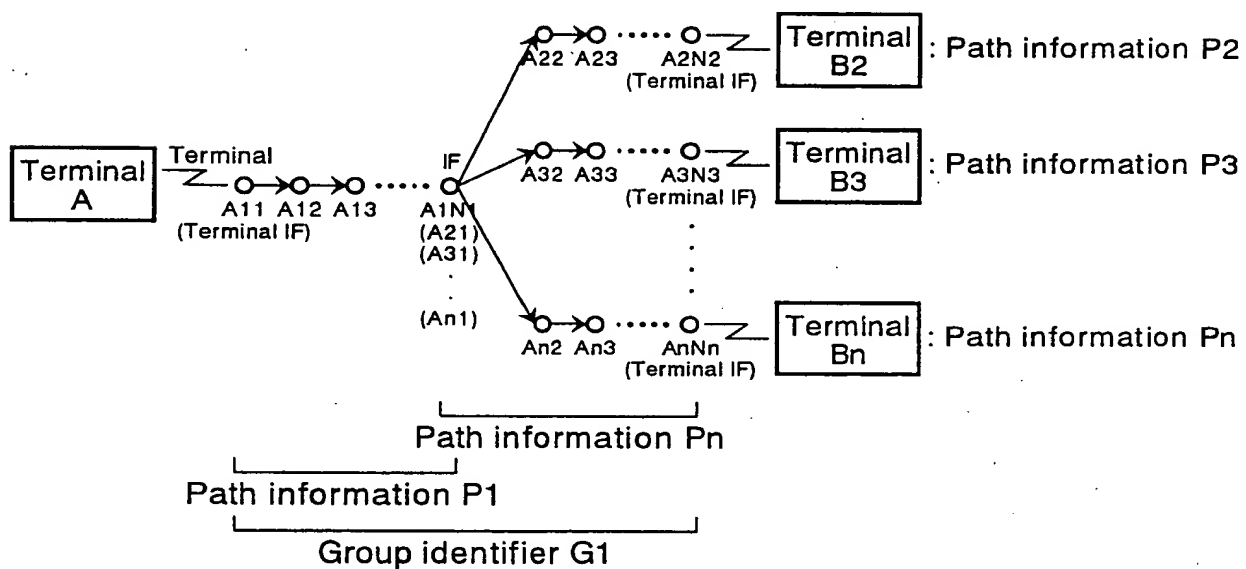
Reception side of X2

TS#61	P15
TS#62	G1
.	P16
.	G1
.	
.	

Reception side of S21

TS#71	P16
.	G1
.	
.	
.	
.	

FIG. 12



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FIG. 13

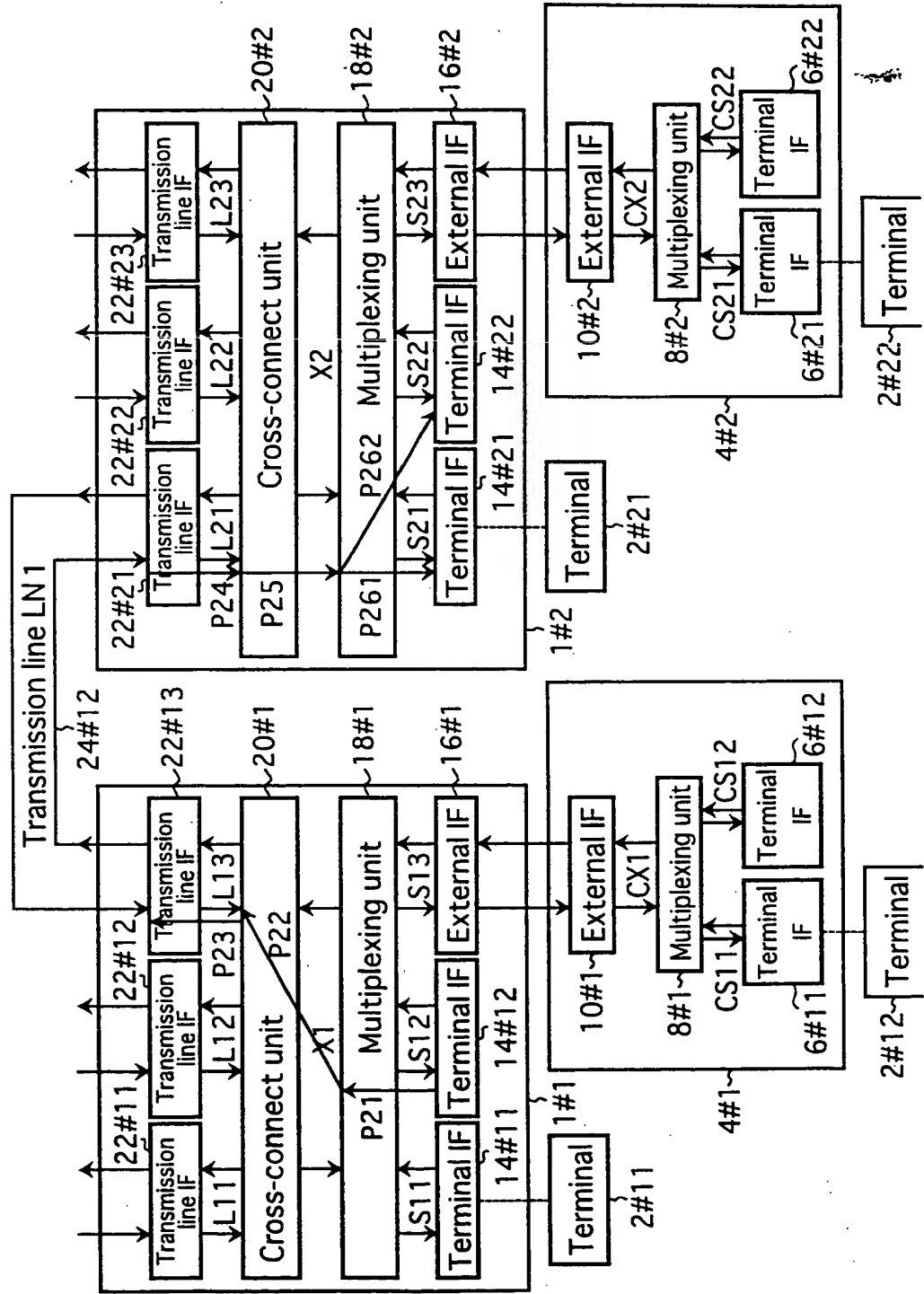


FIG. 14

Path P21	Path P22	Path P23
P21	P22	P23
G2	G2	G2
TS	TS	TS
S12 Terminal IF	X1 Apparatus internal IF	L13 Apparatus internal IF
X1 Apparatus internal IF	L13 Apparatus internal IF	LN1 Transmission-line IF
Uni-directional	Uni-directional	Uni-directional

Path P24	Path P25
P24	P25
G2	G2
TS	TS
LN1 Transmission-line IF	L21 Apparatus internal IF
L21 Apparatus internal IF	X2 Apparatus internal IF
Uni-directional	Uni-directional

Path P261	Path P262
P261	P262
G2	G2
TS	TS
X2 Apparatus internal IF	X2 Apparatus internal IF
S21 Terminal IF	S22 Terminal IF
Uni-directional	Uni-directional

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FIG. 15

Transmission side of S12

TS#11	P21
.	G2
.	
.	
.	
.	

Transmission side of X1

TS#21	P21
TS#22	G2
.	P22
.	G2
.	
.	

Transmission side of L13

TS#31	P22
TS#32	G2
.	P23
.	G2
.	
.	

Transmission side of LN1

TS#41	P23
TS#42	G2
.	P24
.	G2
.	
.	

Reception side of L21

TS#51	P24
TS#52	G2
.	P25
.	G2
.	
.	

Reception side of X2

TS#61	P25
TS#62	G2
.	P261
.	G2
.	P262
.	G2

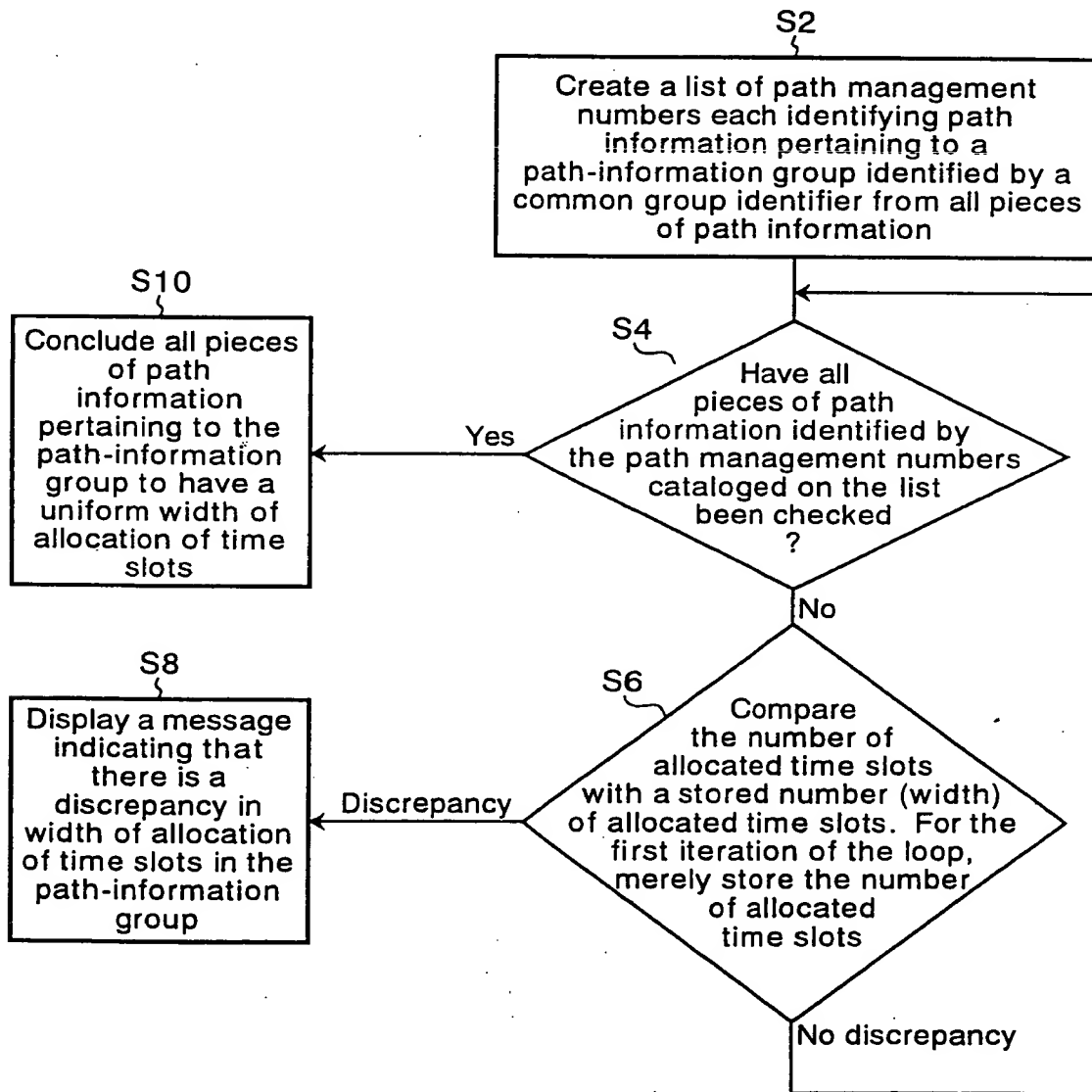
Reception side of S21

TS#71	P261
TS#72	G2
.	
.	
.	
.	

Reception side of S22

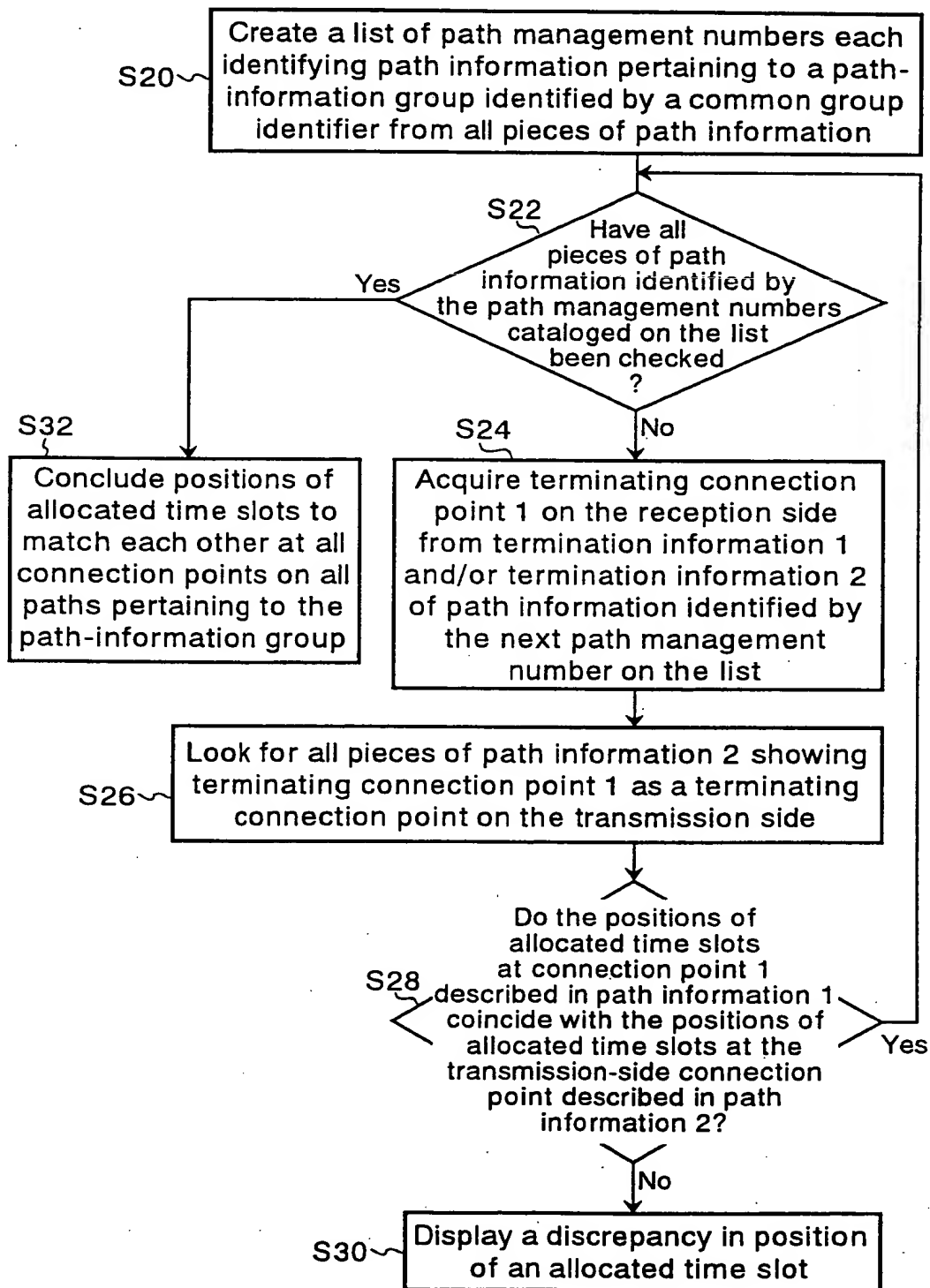
TS#81	P262
.	G2
.	
.	
.	
.	

FIG. 16



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FIG. 17



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FIG. 18

Transmission side of X1

TS#21		P11
TS#22		G1
.		P12
.		G1
.		
.		

FIG. 19

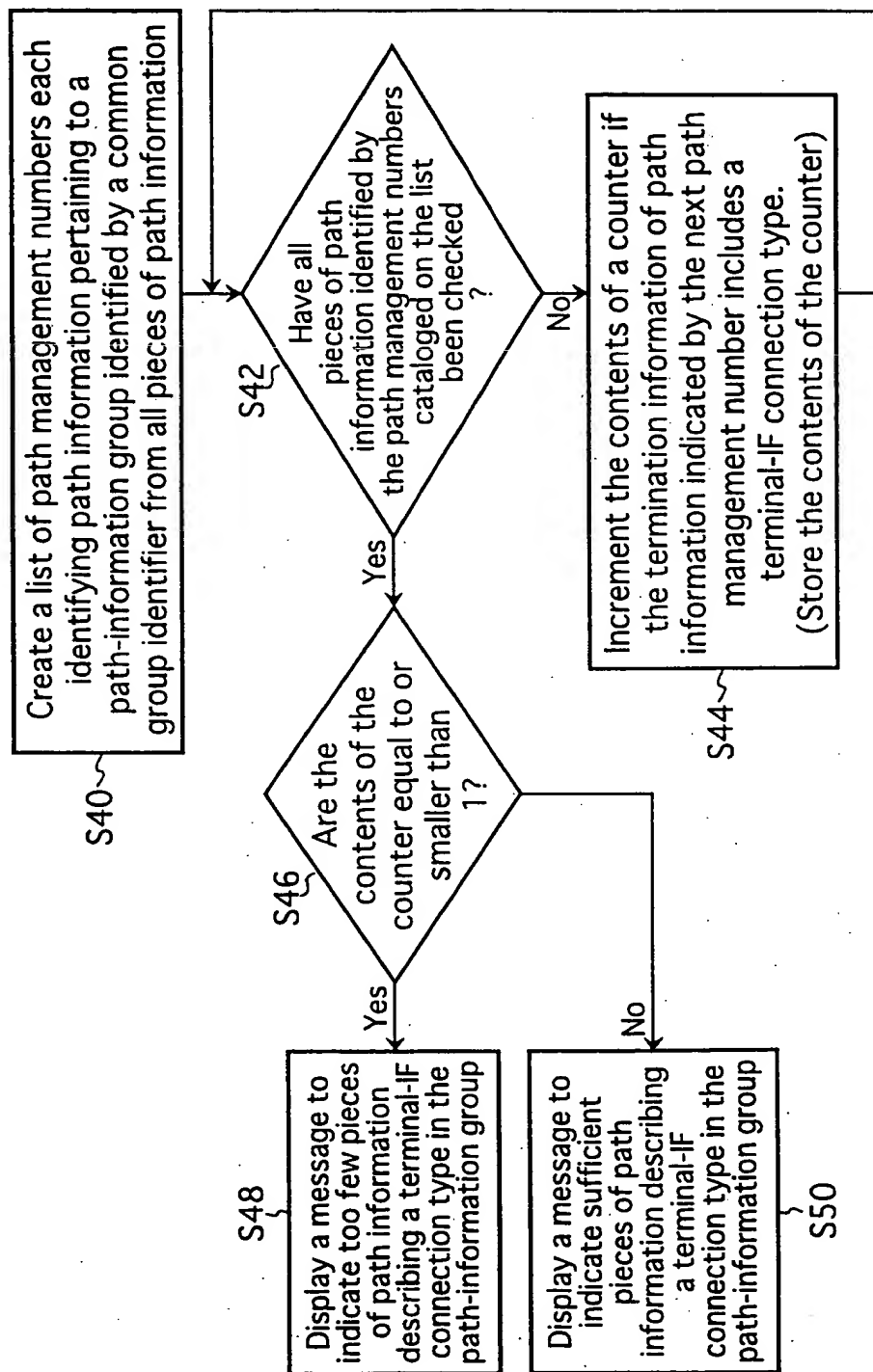
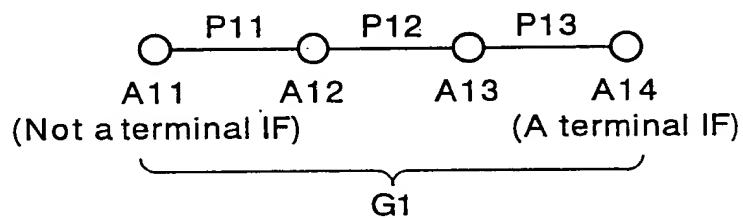
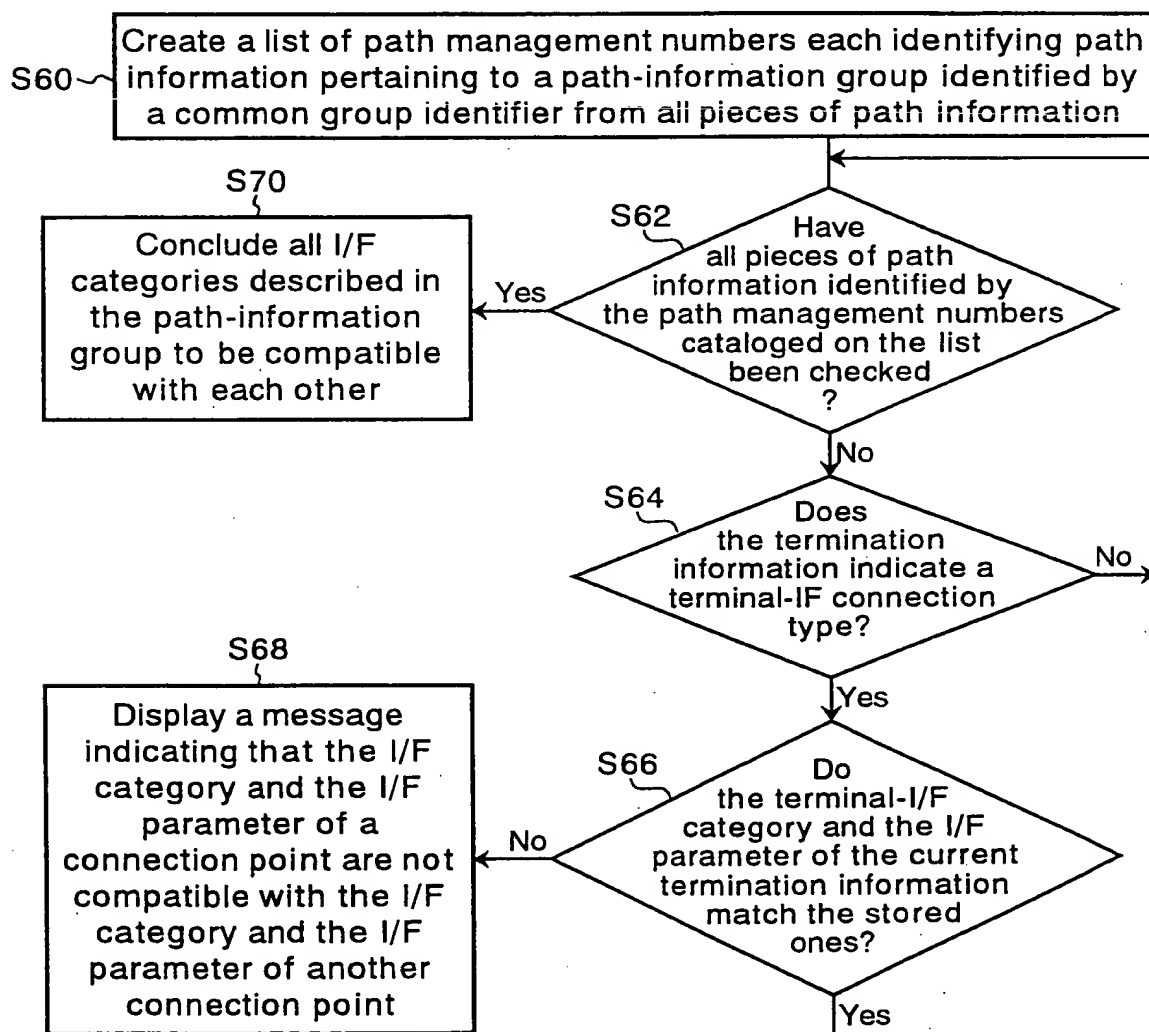


FIG. 20



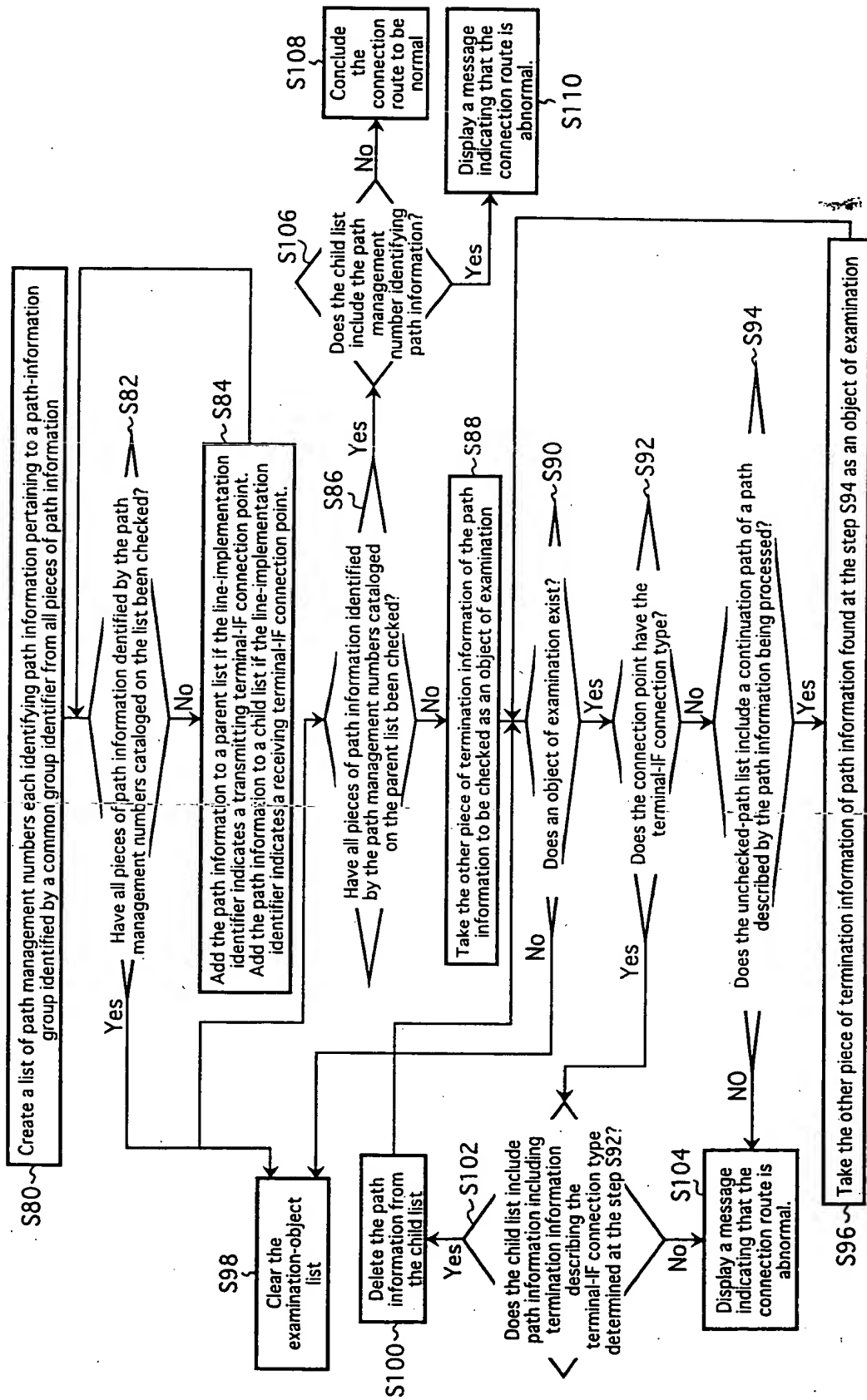
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FIG. 21



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FIG. 22



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FIG 23

FIG. 23

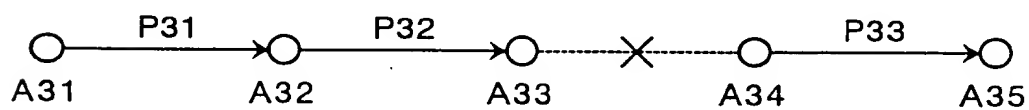
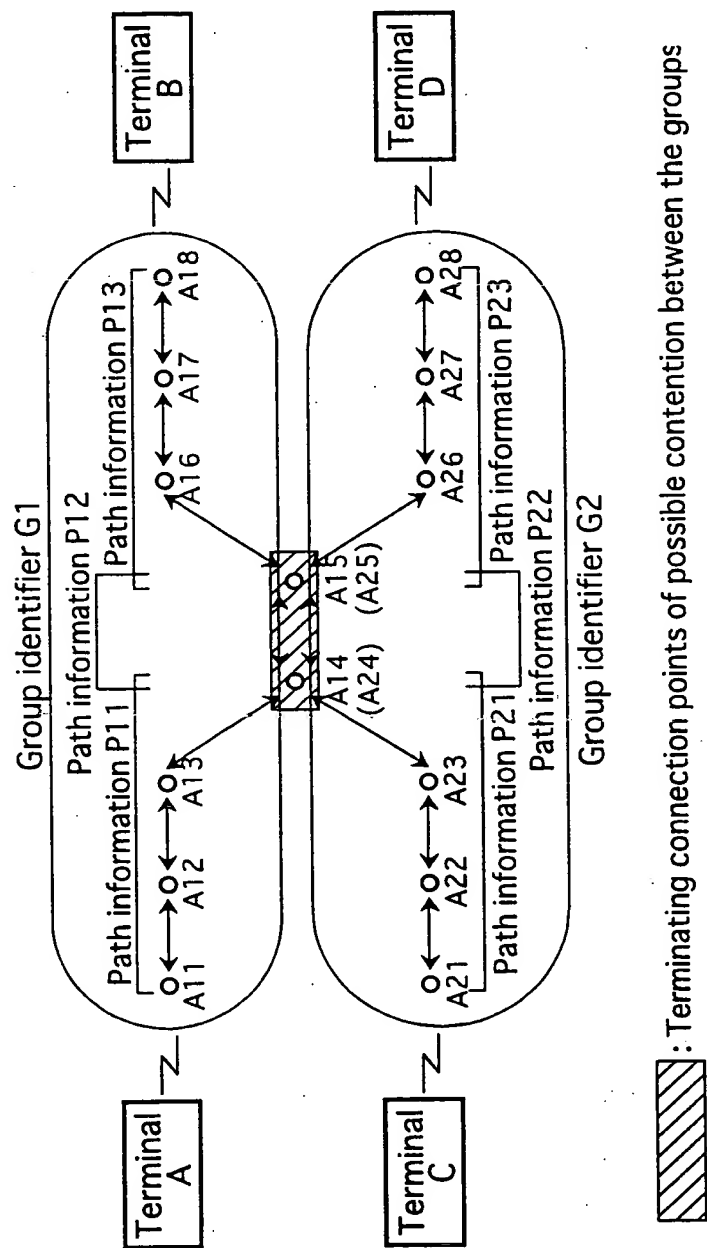


FIG. 24



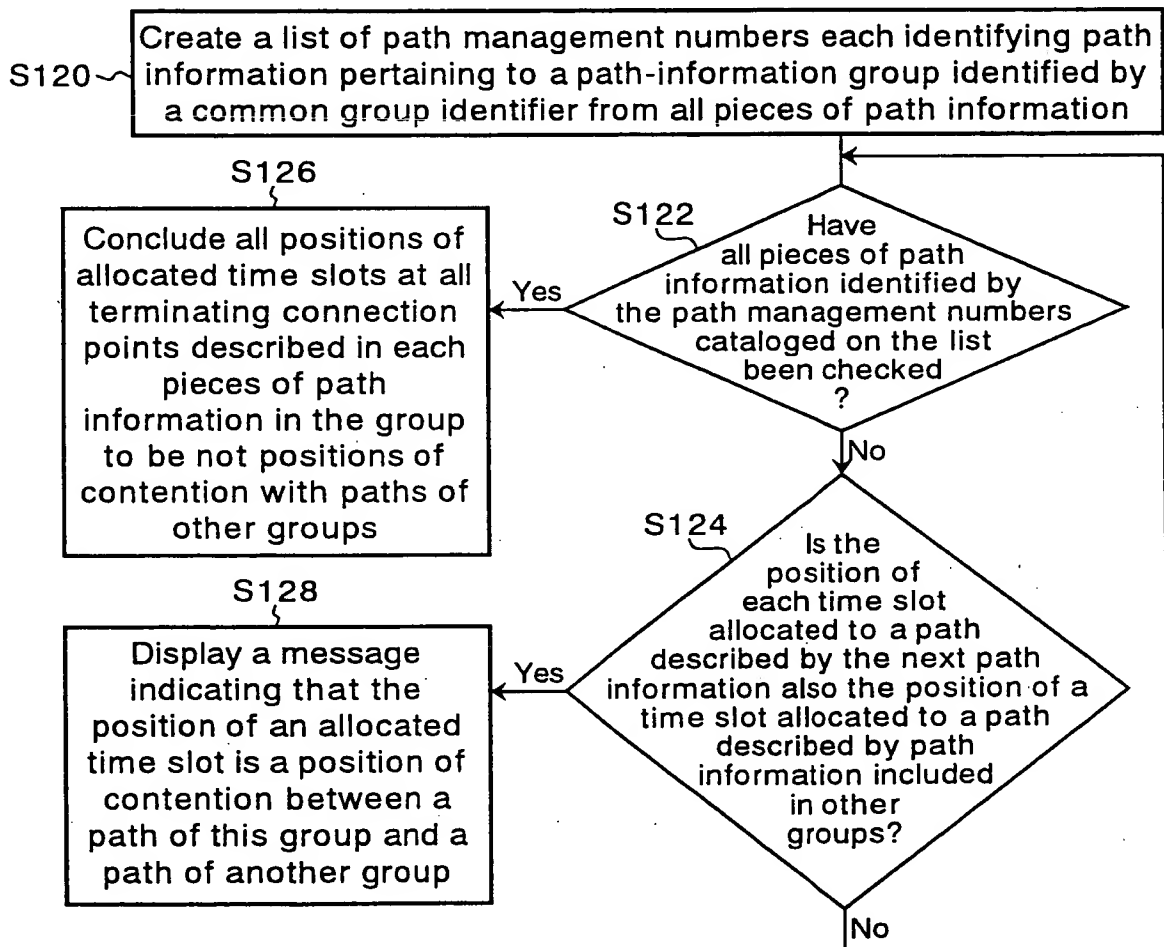
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FIG. 25

Information on allocation of time slots
at the terminating connection point A14

Allocation information TS#1	Usage information #1	P11
.	Usage information #2	G1
	Usage information #3	P12
	Usage information #4	G1
		P21
		G2
		P22
		G2

FIG. 26



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FIG. 27

